

Title (en)

BASE STATION DEVICE, WIRELESS COMMUNICATION SYSTEM, AND COMMUNICATION METHOD

Title (de)

BASISSTATIONSVORRICHTUNG, DRAHTLOSKOMMUNIKATIONSSYSTEM UND KOMMUNIKATIONSVERFAHREN

Title (fr)

DISPOSITIF DE STATION DE BASE, SYSTÈME DE COMMUNICATION SANS FIL, ET PROCÉDÉ DE COMMUNICATION

Publication

**EP 3089389 A4 20170809 (EN)**

Application

**EP 15746734 A 20150128**

Priority

- JP 2014021158 A 20140206
- JP 2015052308 W 20150128

Abstract (en)

[origin: EP3089389A1] A base station apparatus is provided with at least one remote unit apparatus each including at least one antenna, and a central unit apparatus connected to each remote unit apparatus via a transmission path. The antenna provided in the remote unit apparatus receives a transmission signal wirelessly transmitted from at least one wireless terminal each including at least one antenna. The remote unit apparatus includes a channel estimation unit that estimates channel information between the antenna of the wireless terminal and the antenna of the remote unit apparatus, using a reception signal received by the antenna provided in the remote unit apparatus, a likelihood calculation unit that calculates likelihood of each transmission signal included in the reception signal, for each antenna provided in the remote unit apparatus, using the channel information estimated by the channel estimation unit, and an inter-unit transmission unit that transmits likelihood information calculated by the likelihood calculation unit to the central unit apparatus. The central unit apparatus is provided with an inter-unit receiving unit that receives the likelihood information transmitted from the inter-unit transmission unit, and a signal detection unit that combines the likelihood information received by the inter-unit receiving unit, and outputs a signal corresponding to each transmission signal transmitted from the wireless terminal, using combined likelihood information.

IPC 8 full level

**H04B 7/022** (2017.01); **H04B 7/04** (2017.01); **H04J 99/00** (2009.01)

CPC (source: EP US)

**H04B 7/022** (2013.01 - EP US); **H04B 7/024** (2013.01 - EP US); **H04B 7/0413** (2013.01 - EP US); **H04B 17/309** (2015.01 - US); **H04B 17/373** (2015.01 - US); **H04L 25/0204** (2013.01 - US); **H04L 25/03318** (2013.01 - EP); **H04W 52/42** (2013.01 - US)

Citation (search report)

- [X] KEYING WU ET AL: "Uplink multi-BS MIMO with limited backhaul bandwidth 1", 2011 IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE (WCNC 2011) : CANCUN, MEXICO, 28 - 31 MARCH 2011, IEEE, PISCATAWAY, NJ, 28 March 2011 (2011-03-28), pages 1443 - 1448, XP031876492, ISBN: 978-1-61284-255-4, DOI: 10.1109/WCNC.2011.5779372
- See references of WO 2015119009A1

Cited by

CN106789778A; EP3515026A4; US10659261B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (application)

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